



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Streetcar 15 Fed

#501H

OH

Design: OH

Midland PVA

28 June, 2018



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3375.0usft (H&P 642)
Site:	Streelcar 15 Fed	MD Reference:	KB = 25' @ 3375.0usft (H&P 642)
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Streelcar 15 Fed		
Site Position:		Northing:	409,714.00 usft
From:	Map	Easting:	782,680.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 26.337 N
		Longitude:	103° 33' 10.146 W
		Grid Convergence:	0.41 °

Well	#501H		
Well Position	+N-S	0.0 usft	Latitude: 32° 7' 26.327 N
	+E-W	0.0 usft	Longitude: 103° 33' 10.146 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Ground Level:	3,350.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	5/5/2018	6.84
			59.96
			47,790,55601264

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)
	0.0	0.0	0.0
			358.63

Survey Program	Date	6/28/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
173.0	15,610.0	Lean MWD (OH)	MWD	OWSG MWD - Standard



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Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
173.0	0.40	323.00	173.0	0.5	-0.4	0.23	0.23	0.00	-0.6	0.0	
267.0	0.80	296.60	267.0	1.0	-1.1	0.51	0.43	-28.09	-1.5	-0.4	
323.0	0.80	296.60	323.0	1.4	-1.8	0.00	0.00	0.00	-2.3	-0.4	
362.0	0.50	1.50	362.0	1.7	-2.1	1.90	-0.77	166.41	-1.6	2.1	
442.0	0.70	24.90	442.0	2.5	-1.9	0.39	0.25	29.25	-1.5	2.7	
501.0	1.00	11.00	501.0	3.3	-1.6	0.61	0.51	-23.56	-2.9	2.2	
556.0	2.20	56.50	556.0	4.4	-0.6	3.02	2.18	82.73	-1.9	4.0	
614.0	1.20	9.90	613.9	5.6	0.4	2.81	-1.72	-80.34	-5.6	0.6	
678.0	0.90	36.50	677.9	6.6	0.8	0.88	-0.47	41.56	-5.8	3.3	
770.0	0.90	36.50	769.9	7.8	1.7	0.00	0.00	0.00	-7.3	3.3	
864.0	0.80	30.50	863.9	9.0	2.4	0.14	-0.11	-6.38	-9.0	2.5	
957.0	0.70	348.70	956.9	10.1	2.6	0.58	-0.11	-44.95	-9.4	-4.6	
1,049.0	1.70	328.30	1,048.9	11.8	1.8	1.17	1.09	-22.17	-9.1	-7.7	
1,142.0	1.70	323.00	1,141.8	14.1	0.3	0.17	0.00	-5.70	-11.1	-8.7	
1,182.0	1.60	345.00	1,181.8	15.1	-0.2	1.59	-0.25	55.00	-14.6	-3.7	
1,232.0	1.50	329.70	1,231.8	16.3	-0.7	0.85	-0.20	-30.60	-14.5	-7.6	
1,322.0	1.10	323.00	1,321.8	18.0	-1.9	0.47	-0.44	-7.44	-15.5	-9.4	
1,414.0	0.60	262.50	1,413.8	18.7	-2.9	1.04	-0.54	-65.76	-0.4	-18.9	
1,505.0	0.60	222.30	1,504.8	18.2	-3.7	0.45	0.00	-44.18	11.0	-15.0	
1,599.0	1.00	194.50	1,598.7	17.1	-4.2	0.58	0.43	-29.57	15.5	-8.3	
1,694.0	1.70	132.10	1,693.7	15.3	-3.4	1.60	0.74	-65.68	12.8	9.1	
1,789.0	2.60	171.80	1,788.7	12.3	-2.0	1.78	-0.95	41.79	12.4	-0.2	
1,883.0	2.80	119.60	1,882.6	9.0	0.3	2.53	0.21	-55.53	4.2	8.0	
1,977.0	2.60	144.10	1,976.5	6.2	3.5	1.24	-0.21	28.06	2.9	6.5	
2,071.0	2.80	179.60	2,070.4	2.1	4.8	1.76	0.21	37.77	2.8	5.4	
2,165.0	4.60	203.80	2,164.2	-3.6	3.3	2.50	1.91	25.74	2.6	5.7	



Midland PVA

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 Project: Lea County, NM (NAD 83 NME)
 Site: Streetcar 15 Fed
 Well: #501H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #501H
 TVD Reference: KB = 25' @ 3375.0usft (H&P 642)
 MD Reference: KB = 25' @ 3375.0usft (H&P 642)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Buikd (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
2,260.0	6.20	207.70	2,258.8	-11.6	-0.6	1.73	1.68	4.11	0.9	7.1	
2,354.0	6.50	221.10	2,352.2	-20.1	-6.5	1.60	0.32	14.26	1.3	7.5	
2,449.0	6.10	231.10	2,446.6	-27.4	-13.9	1.23	-0.42	10.53	1.3	6.2	
2,543.0	5.50	224.80	2,540.1	-33.7	-21.0	0.93	-0.64	-6.70	0.3	4.8	
2,637.0	4.80	223.00	2,633.8	-39.8	-28.9	0.76	-0.74	-1.91	0.9	4.0	
2,732.0	4.00	218.60	2,728.5	-45.3	-31.6	0.91	-0.84	-4.63	2.5	3.8	
2,826.0	4.70	217.50	2,822.2	-50.9	-36.0	0.75	0.74	-1.17	4.5	4.0	
2,921.0	6.20	223.20	2,916.8	-57.7	-41.9	1.68	1.58	6.00	5.1	3.2	
3,015.0	6.90	225.80	3,010.2	-65.3	-49.4	0.81	0.74	2.77	3.6	2.1	
3,109.0	5.60	219.80	3,103.6	-72.8	-56.4	1.55	-1.38	-6.38	2.4	1.7	
3,204.0	4.80	210.90	3,198.2	-79.8	-61.4	1.19	-0.84	-9.37	2.7	2.6	
3,298.0	5.50	214.20	3,291.8	-86.9	-66.0	0.81	0.74	3.51	3.6	3.4	
3,393.0	7.60	225.80	3,386.2	-95.0	-73.0	2.60	2.21	12.21	2.6	2.4	
3,487.0	7.80	233.70	3,479.4	-103.1	-82.6	1.15	0.21	8.40	-0.8	0.6	
3,581.0	7.00	229.30	3,572.6	-110.7	-92.1	1.04	-0.85	-4.68	-3.9	-1.7	
3,676.0	6.70	231.10	3,666.9	-117.9	-100.8	0.39	-0.32	1.89	-6.2	-3.3	
3,770.0	5.60	228.30	3,760.4	-124.4	-108.5	1.21	-1.17	-2.98	-7.1	-5.4	
3,865.0	5.30	209.10	3,854.9	-131.3	-114.1	1.94	-0.32	-20.21	-4.6	-7.4	
3,959.0	5.50	200.00	3,948.5	-139.3	-117.8	0.93	0.21	-9.68	-3.4	-5.7	
4,053.0	5.20	190.10	4,042.1	-147.8	-120.1	1.03	-0.32	-10.53	-3.1	-2.6	
4,148.0	5.60	190.10	4,136.7	-156.6	-121.6	0.42	0.42	0.00	-3.9	1.9	
4,242.0	6.20	205.60	4,230.2	-165.7	-124.6	1.80	0.64	16.49	-3.8	6.2	
4,337.0	5.50	202.80	4,324.7	-174.5	-128.6	0.80	-0.74	-2.95	-4.9	8.3	
4,431.0	5.10	190.80	4,418.3	-182.7	-131.1	1.25	-0.43	-12.77	-7.0	10.5	
4,525.0	4.00	194.50	4,512.0	-190.0	-132.7	1.21	-1.17	3.94	-5.4	15.0	
4,620.0	3.20	200.10	4,606.8	-195.7	-134.5	0.92	-0.84	5.89	-1.1	18.7	
4,714.0	1.70	221.40	4,700.7	-199.2	-136.3	1.84	-1.60	22.66	10.0	18.4	



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4,809.0	0.80	200.10	4,795.7	-200.9	-137.5	1.05	-0.95	-22.42	5.5	21.9	
4,902.0	0.50	191.40	4,888.7	-201.9	-137.8	0.34	-0.32	-9.35	2.7	23.3	
4,979.0	0.90	171.10	4,965.7	-202.8	-137.7	0.60	0.52	-26.36	-6.4	22.6	
5,074.0	0.50	183.10	5,060.7	-204.0	-137.6	0.45	-0.42	12.63	-2.7	23.6	
5,168.0	0.70	172.20	5,154.7	-205.0	-137.6	0.24	0.21	-11.60	-8.1	22.6	
5,262.0	0.40	141.40	5,248.7	-205.8	-137.3	0.44	-0.32	-32.77	-19.4	15.0	
5,356.0	0.30	125.30	5,342.7	-206.2	-136.9	0.15	-0.11	-17.13	-23.3	8.9	
5,451.0	0.30	125.40	5,437.7	-206.5	-136.5	0.00	0.00	0.11	-23.8	9.0	
5,545.0	0.40	189.90	5,531.7	-207.0	-136.3	0.41	0.11	68.62	-2.6	25.6	
5,639.0	0.40	123.30	5,625.7	-207.5	-136.1	0.47	0.00	-70.85	-25.0	7.5	
5,734.0	0.50	134.00	5,720.7	-207.9	-135.6	0.14	0.11	11.26	-23.9	12.0	
5,828.0	0.30	122.30	5,814.7	-208.3	-135.0	0.23	-0.21	-12.45	-26.5	6.9	
5,922.0	1.10	357.30	5,908.7	-207.6	-134.9	1.38	0.85	-132.98	8.8	-25.8	
6,017.0	1.20	336.00	6,003.6	-205.8	-135.3	0.46	0.11	-22.42	15.7	-21.2	
6,111.0	1.20	349.00	6,097.6	-203.9	-135.9	0.29	0.00	13.83	8.6	-24.0	
6,205.0	1.20	340.90	6,191.6	-202.0	-136.4	0.18	0.00	-8.62	10.0	-22.7	
6,300.0	0.80	342.30	6,286.6	-200.4	-137.0	0.42	-0.42	1.47	7.8	-22.9	
6,394.0	1.10	355.40	6,380.6	-198.9	-137.2	0.39	0.32	13.94	0.8	-23.9	
6,489.0	0.90	335.10	6,475.6	-197.3	-137.6	0.42	-0.21	-21.37	7.5	-22.4	
6,583.0	1.00	357.10	6,569.5	-195.8	-138.0	0.40	0.11	23.40	-3.0	-23.3	
6,678.0	0.80	336.40	6,664.5	-194.4	-138.3	0.40	-0.21	-21.79	4.0	-23.2	
6,772.0	0.90	332.50	6,758.5	-193.1	-138.9	0.12	0.11	-4.15	4.2	-22.9	
6,867.0	0.70	338.10	6,853.5	-191.9	-139.4	0.23	-0.21	5.89	0.6	-23.1	
6,961.0	0.70	331.30	6,947.5	-190.9	-139.9	0.09	0.00	-7.23	2.2	-22.9	
7,055.0	0.90	356.20	7,041.5	-189.7	-140.3	0.42	0.21	26.49	-8.9	-21.5	
7,149.0	0.40	353.40	7,135.5	-188.6	-140.3	0.53	-0.53	-2.98	-8.9	-21.9	
7,243.0	0.40	352.40	7,229.5	-187.9	-140.4	0.01	0.00	-1.06	-9.2	-22.1	



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7,336.0	0.70	325.50	7,324.5	-187.1	-140.8	0.41	0.32	-28.32	0.9	-24.0	
7,432.0	0.50	294.90	7,418.5	-186.5	-141.5	0.39	-0.21	-32.55	12.1	-20.5	
7,526.0	0.60	276.10	7,512.5	-186.3	-142.4	0.22	0.11	-20.00	17.2	-15.6	
7,621.0	0.50	217.40	7,607.5	-186.5	-143.1	0.57	-0.11	-61.79	21.6	6.1	
7,715.0	0.80	232.30	7,701.5	-187.3	-143.9	0.36	0.32	15.85	21.4	0.5	
7,809.0	0.50	201.90	7,795.5	-188.0	-144.5	0.48	-0.32	-32.34	17.3	10.9	
7,904.0	0.90	232.50	7,890.5	-188.9	-145.3	0.56	0.42	32.21	19.3	0.8	
7,998.0	0.40	193.50	7,984.4	-189.7	-145.9	0.68	-0.53	-41.49	13.6	12.3	
8,093.0	0.70	167.40	8,079.4	-190.5	-145.9	0.40	0.32	-27.47	5.9	16.9	
8,187.0	0.70	12.10	8,173.4	-190.5	-145.7	1.45	0.00	-165.21	-12.5	-13.1	
8,282.0	0.50	181.30	8,268.4	-190.4	-145.5	1.28	-0.21	178.11	10.0	15.3	
8,376.0	0.40	182.70	8,362.4	-191.1	-145.6	0.11	-0.11	1.49	9.6	15.1	
8,470.0	0.60	163.20	8,456.4	-191.9	-145.4	0.28	0.21	-20.74	3.2	17.3	
8,565.0	0.80	164.10	8,551.4	-193.0	-145.1	0.21	0.21	0.95	2.3	17.3	
8,659.0	0.80	171.10	8,645.4	-194.3	-144.8	0.10	0.00	7.45	3.1	16.9	
8,753.0	1.00	160.60	8,739.4	-195.7	-144.5	0.27	0.21	-11.17	-1.5	17.1	
8,848.0	0.90	160.60	8,834.4	-197.2	-143.9	0.11	-0.11	0.00	-3.1	17.1	
8,942.0	0.60	177.60	8,928.4	-198.4	-143.7	0.39	-0.32	18.09	0.8	17.5	
9,037.0	0.50	213.90	9,023.4	-199.3	-143.9	0.37	-0.11	38.21	10.2	13.9	
9,131.0	0.60	249.20	9,117.4	-199.8	-144.6	0.37	0.11	37.55	15.5	5.7	
9,225.0	0.80	268.00	9,211.4	-200.0	-145.7	0.32	0.21	20.00	15.4	0.5	
9,319.0	1.10	284.20	9,305.4	-199.8	-147.2	0.43	0.32	17.23	13.4	-3.6	
9,414.0	0.50	280.80	9,400.3	-199.5	-148.5	0.63	-0.63	-3.58	12.3	-2.9	
9,508.0	0.40	180.50	9,484.3	-199.7	-148.9	0.74	-0.11	-106.70	0.4	12.2	
9,603.0	0.50	105.00	9,589.3	-200.2	-148.5	0.59	0.11	-79.47	-12.2	3.1	
9,697.0	0.40	48.40	9,683.3	-200.0	-147.9	0.46	-0.11	-60.21	-9.9	-8.8	
9,791.0	0.70	352.50	9,777.3	-199.3	-147.7	0.62	0.32	-59.47	1.0	-13.4	



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9,886.0	0.90	334.60	9,872.3	-198.0	-148.1	0.33	0.21	-18.84	3.8	-12.6	
9,980.0	1.40	6.30	9,966.3	-196.2	-148.3	0.84	0.53	33.72	-5.2	-12.3	
10,074.0	2.00	94.00	10,060.3	-195.2	-146.5	2.55	0.64	93.30	-14.2	5.8	
10,169.0	1.90	135.50	10,155.2	-196.4	-143.8	1.46	-0.11	43.68	-9.6	14.9	
10,297.0	4.60	30.30	10,283.1	-193.5	-139.7	4.23	2.11	-82.19	-13.8	-16.0	
10,392.0	14.20	12.80	10,376.7	-178.8	-135.2	10.43	10.11	-18.42	-6.6	-20.5	
10,486.0	23.00	12.80	10,465.7	-149.6	-128.5	9.36	9.36	0.00	-4.4	-20.3	
10,581.0	29.50	12.20	10,550.9	-108.6	-119.5	6.85	6.84	-0.63	1.1	-19.8	
10,627.0	33.20	11.50	10,590.2	-85.2	-114.6	8.08	8.04	-1.52	5.4	-19.1	
10,675.0	37.50	11.40	10,629.3	-58.0	-109.1	8.96	8.96	-0.21	10.2	-18.2	
10,770.0	47.10	11.00	10,699.5	4.7	-96.7	10.11	10.11	-0.42	19.5	-17.5	
10,863.0	55.20	9.20	10,757.8	75.9	-84.0	8.84	8.71	-1.94	28.8	-19.1	
10,867.5	55.66	8.99	10,760.3	79.6	-83.5	10.94	10.25	-4.64	29.0	-19.2	
FTP Crossing 10867.5' MD; 10760.3' TVD; 79.6°; -83.5°; 55.66											
10,958.0	65.00	5.20	10,805.1	157.5	-73.9	10.94	10.32	-4.19	37.5	-19.9	
11,005.0	72.00	4.30	10,822.3	201.1	-70.3	15.00	14.89	-1.91	40.1	-20.1	
11,052.0	78.50	3.80	10,834.3	246.4	-67.1	13.87	13.83	-1.06	40.5	-20.7	
11,094.0	84.60	4.10	10,840.4	287.8	-64.2	14.54	14.52	0.71	39.2	-22.0	
11,146.0	89.30	2.20	10,843.2	339.7	-61.4	9.75	9.04	-3.65	36.7	-23.7	
11,241.0	91.10	359.40	10,842.9	434.6	-60.0	3.50	1.89	-2.95	35.2	-25.3	
11,335.0	91.50	358.90	10,840.7	528.6	-61.4	0.68	0.43	-0.53	33.3	-24.5	
11,430.0	91.30	359.60	10,838.4	623.6	-62.7	0.77	-0.21	0.74	31.1	-23.9	
11,524.0	91.40	359.60	10,836.2	717.5	-63.3	0.11	0.11	0.00	29.1	-23.9	
11,619.0	90.80	359.00	10,834.4	812.5	-64.5	0.89	-0.63	-0.63	27.4	-23.4	
11,713.0	90.60	358.90	10,833.2	906.5	-66.2	0.24	-0.21	-0.11	26.4	-22.3	
11,807.0	90.00	358.70	10,832.7	1,000.5	-68.2	0.67	-0.64	-0.21	26.1	-21.0	
11,902.0	89.90	358.50	10,832.8	1,095.4	-70.5	0.24	-0.11	-0.21	26.3	-19.3	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3375.0usft (H&P 642)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3375.0usft (H&P 642)
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Dleg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
11,996.0	89.50	358.20	10,833.3	1,189.4	-73.2	0.53	-0.43	-0.32	27.0	-17.2
12,091.0	89.40	358.20	10,834.2	1,284.3	-76.2	0.11	-0.11	0.00	28.1	-14.9
12,185.0	89.20	358.20	10,835.4	1,378.3	-79.1	0.21	-0.21	0.00	29.4	-12.6
12,279.0	89.20	357.60	10,836.7	1,472.2	-82.6	0.64	0.00	-0.64	30.9	-9.8
12,374.0	90.00	358.70	10,837.3	1,567.2	-85.6	1.43	0.84	1.16	31.7	-7.3
12,468.0	90.00	359.60	10,837.3	1,661.2	-87.0	0.96	0.00	0.96	31.9	-6.6
12,563.0	90.40	358.90	10,837.0	1,756.1	-88.3	0.85	0.42	-0.74	31.7	-6.0
12,657.0	92.30	358.50	10,834.8	1,850.1	-90.4	2.07	2.02	-0.43	29.6	-4.5
12,751.0	92.50	358.20	10,830.9	1,944.0	-93.1	0.38	0.21	-0.32	25.9	-2.4
12,845.0	92.10	358.30	10,827.1	2,037.8	-96.0	0.44	-0.43	0.11	22.3	-0.2
12,940.0	91.80	358.50	10,823.8	2,132.8	-98.6	0.38	-0.32	0.21	19.2	1.8
13,034.0	91.70	358.00	10,821.0	2,226.7	-101.5	0.54	-0.11	-0.53	16.5	4.0
13,128.0	91.50	357.50	10,818.4	2,320.6	-105.2	0.57	-0.21	-0.53	14.0	7.1
13,223.0	88.70	358.20	10,818.2	2,415.5	-108.8	3.04	-2.95	0.74	14.0	10.0
13,317.0	87.80	358.00	10,821.1	2,509.4	-111.9	0.98	-0.96	-0.21	17.1	12.5
13,411.0	88.40	358.70	10,824.2	2,603.3	-114.6	0.98	0.64	0.74	20.3	14.5
13,506.0	89.50	359.20	10,825.9	2,698.3	-116.3	1.27	1.16	0.53	22.2	15.6
13,600.0	89.70	359.20	10,826.6	2,792.2	-117.6	0.21	0.21	0.00	23.1	16.3
13,695.0	89.60	358.90	10,827.2	2,887.2	-119.2	0.33	-0.11	-0.32	23.8	17.2
13,789.0	89.50	358.30	10,827.9	2,981.2	-121.5	0.65	-0.11	-0.64	24.7	18.9
13,884.0	89.30	358.20	10,828.9	3,076.2	-124.4	0.24	-0.21	-0.11	25.9	21.1
13,978.0	88.40	358.90	10,830.8	3,170.1	-126.8	1.21	-0.96	0.74	27.9	22.9
14,072.0	89.20	359.20	10,832.7	3,264.1	-128.3	0.91	0.85	0.32	30.1	23.8
14,167.0	90.10	359.40	10,833.3	3,359.1	-129.5	0.97	0.95	0.21	30.8	24.3
14,261.0	90.30	358.90	10,833.0	3,453.0	-130.9	0.57	0.21	-0.53	30.6	25.1
14,356.0	90.00	359.80	10,832.7	3,548.0	-132.0	1.00	-0.32	0.95	30.6	25.5
14,450.0	90.50	1.20	10,832.3	3,642.0	-131.2	1.58	0.53	1.49	30.3	24.0



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3375.0usft (H&P 642)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3375.0usft (H&P 642)
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
14,544.0	90.70	1.30	10,831.3	3,736.0	-129.1	0.24	0.21	0.11	29.5	21.3	
14,638.0	90.80	1.00	10,830.1	3,830.0	-127.2	0.34	0.11	-0.32	28.4	18.8	
14,733.0	90.90	1.00	10,828.7	3,925.0	-125.6	0.11	0.11	0.00	27.2	16.5	
14,827.0	91.20	0.50	10,827.0	4,018.9	-124.3	0.62	0.32	-0.53	25.6	14.7	
14,922.0	91.20	0.10	10,825.0	4,113.9	-123.8	0.42	0.00	-0.42	23.8	13.5	
15,016.0	91.50	359.60	10,822.8	4,207.9	-124.1	0.62	0.32	-0.53	21.7	13.1	
15,111.0	89.70	0.80	10,821.8	4,302.9	-123.7	2.28	-1.89	1.26	20.9	12.1	
15,205.0	89.70	0.30	10,822.3	4,396.9	-122.8	0.53	0.00	-0.53	21.6	10.6	
15,299.0	90.20	359.80	10,822.4	4,490.9	-122.8	0.75	0.53	-0.53	21.8	9.9	
15,394.0	90.40	359.80	10,821.9	4,585.9	-123.1	0.21	0.21	0.00	21.5	9.6	
15,488.0	90.70	359.20	10,821.0	4,679.9	-123.9	0.71	0.32	-0.64	20.8	9.7	
15,507.8	90.76	359.20	10,820.7	4,699.6	-124.2	0.30	0.30	0.00	20.5	9.9	
LTP Crossing 15507.8' MD; 10820.7' TVD; 4699.6'; -124.2'; 90.76											
15,554.0	90.90	359.20	10,820.0	4,745.8	-124.8	0.30	0.30	0.00	19.9	10.2	
Last MWD Survey (MD = 15554.0)											
15,610.0	90.90	359.20	10,819.2	4,801.8	-125.6	0.00	0.00	0.00	19.2	10.6	
Projection to Bit (MD = 15610.0)											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
10,867.5	10,760.3	79.6	-83.5	FTP Crossing 10867.5' MD; 10760.3' TVD; 79.6'; -83.5'; 55.66
15,507.8	10,820.7	4,699.6	-124.2	LTP Crossing 15507.8' MD; 10820.7' TVD; 4699.6'; -124.2'; 90.76
15,554.0	10,820.0	4,745.8	-124.8	Last MWD Survey (MD = 15554.0)
15,610.0	10,819.2	4,801.8	-125.6	Projection to Bit (MD = 15610.0)

Checked By: _____ Approved By: _____ Date: _____



HOBBS OCD
SEP 24 2018
RECEIVED

Lea County, NM (NAD 83 NME)

Streetcar 15 Fed

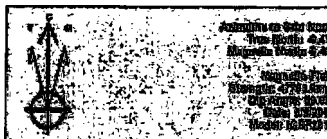
#501H

H&P 642

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level



To convert a Magnetic Direction to a Grid Direction, Add 8.43°
To convert a Magnetic Direction to a True Direction, Add 6.84° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

WELL DETAILS: #501H

	+N-S	+E-W	North	East	Longitude	Lat
3350.0	0.0	0.0	406715.00	782965.00	103° 33' 10.148 W	32° 7' 26.327 N

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	VSet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2279.9	5.60	218.85	2279.5	-10.6	-8.6	2.00	218.85	-10.4	
4	4632.2	5.60	218.85	4620.5	-189.3	-152.5	0.00	0.00	-185.6	
5	4912.1	0.00	0.00	4900.0	-200.0	-161.1	2.00	180.00	-196.1	
6	10240.3	0.00	0.00	10228.2	-200.0	-161.1	0.00	0.00	-196.1	
7	10691.4	45.10	13.12	10634.2	-35.8	-122.8	10.00	13.12	-32.9	
8	11156.9	90.10	359.61	10807.7	380.8	-84.9	10.01	-16.76	382.5	
9	15576.4	90.10	359.61	10800.0	4800.0	-115.0	0.00	0.00	4801.4	PBHL (Streetcar 15 Fed #501H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	North	East	Shape
Brushy Top (Streetcar 15 Fed #501H)	7827.0	-200.0	-161.1	409815.01	782803.80	Polygon
PBHL (Streetcar 15 Fed #501H)	10800.0	4800.0	-115.0	414515.00	782850.00	Rectangle (Sides: L0.0 V480.0)
FTP (Streetcar 15 Fed #501H)	10800.0	80.0	-83.0	409785.00	782852.00	Point

